PROGRAM:

Application Development and Integration

PROGRAM ELEMENT:

PROGRAM MISSION:

To develop web-based (Internet and Intranet) applications in support of County residents and County Government employees that improve the accessibility of government services to the public and enhance the effectiveness and productivity of County employees

COMMUNITY OUTCOMES SUPPORTED:

- Enable County employees to be the best at serving their customers
- Deliver information and services to citizens at work, at home, and in the community
- Increase the productivity of government

| PROGRAM MEASURES | FY03 | FY04 | FY05 | FY06 | FY07 |
|---|---------------------|---------------------|---------|-----------------------|-----------|
| | ACTUAL ^a | ACTUAL ^a | ACTUAL | ESTIMATE ^b | CE REC |
| Outcomes/Results: | | | | | |
| Website visits (000) ^c | NA | NA | 6,223 | 13,557 | 16,946 |
| Website page views (000) ^c | NA | NA | 33,736 | 94,210 | 117,763 |
| Website page hits (000)° | NA | NA | 254,293 | 521,695 | 652,119 |
| Unique visitors to the County's website (000) | NA | NA | 3,186 | 6,654 | 8,318 |
| Total number of links ^d found on: | | | | | |
| - The County's internet web pages | NA | NA | NA | 56,628 | 59,459 |
| - County Intranet pages | NA | NA | NA | 14,894 | 15,639 |
| Number of registered users on the Enterprise Content Editing and Management | NA | NA | 235 | 274 | 281 |
| System (CMS) ^e | | | | | |
| Service Quality: | | | | | |
| Percentage of web portal survey respondents who: | NA | NA | NA | NA | TBD |
| - Rated their experience with the County's web site as "good" or "very good" | | | | | |
| compared to other web sites | NA | NA | NA | NA | TBD |
| - Felt that it was easy to find what they wanted or needed on the County's web site | | | | | |
| - Felt that the site contained useful services and information | NA | NA | NA | NA | TBD |
| - Found the site to be visually appealing and well-designed | NA | NA | NA | NA | TBD |
| Efficiency: | | | | | |
| Applications maintained per workyear | NA | 5.5 | 14.2 | 8.8 | 14.6 |
| Average program cost per application deployed (\$) | NA | 95,320 | 30,257 | 41,887 | 36,418 |
| Average program cost per application maintained (\$) | NA | 26,601 | 11,124 | 13,150 | 8,866 |
| Average program cost per page view (cents) | NA | NA | 2.2 | 1.2 | 0.9 |
| Average program cost per on-line transaction (\$) | NA NA | 106.78 | 43.25 | 43.51 | 37.83 |
| Workload/Outputs: | | | | | |
| Number of new Internet applications deployed | NA | 8 | 11 | 12 | 12 |
| Number of new Intranet applications deployed | NA | 4 | 14 | 15 | 15 |
| Number of Internet applications maintained | NA | 27 | 38 | 43 | 55 |
| Number of Intranet applications maintained | NA | 16 | 30 | 43 | 58 |
| Number of on-line property tax payment transactions | NA | 2,220 | 9,979 | 14,000 | 14,350 |
| Number of on-line solid waste hauler billing payment transactions | NA | NA | 1,434 | 1,292 | 1,320 |
| Number of other on-line payment transactions ⁹ | NA NA | 8,492 | 6,075 | 10,700 | 10,970 |
| Inputs: | | | | | |
| Workyears | 6.6 | 7.8 | 4.8 | 9.8 | 7.8 |
| Expenditures (\$) | 680,783 | 1,143,844 | 756,417 | 1,130,938 | 1,007,878 |
| Notes: | | | | | .,,3,0 |

Notes:

^bExcept for the Inputs, all FY06 figures are 12-month projections based on fiscal year-to-date results as of January 1, 2006. The Inputs shown are the approved FY06 budget levels.

c"Visits" correspond to the number of separate times that someone has gone to the website (e.g. the number of distinct sessions conducted at the site). "Page views" correspond to the number times a website visitor looks at a different page within the site. A "hit" corresponds to the retrieval of any item - for instance, a page or a graphic - from a web server. Thus, when a visitor calls up a web page with four graphics, that constitutes five hits: one for the page and four for the graphics.

d"Links" include links to web pages, PDF files, and Microsoft Word documents. The greater the number of such links, the greater the accessibility of information to the

The Enterprise Content Editing and Management System is an application created by the Application Development and Integration Program which makes it easy for County employees to set up pages on the County's website and to manage and update the content of those pages.

Includes on-line property tax payments, solid waste hauler billing payments, and other on-line payments (see footnote "g" below).

⁹Other transactions include library late fee payments; Commission for Women and Department of Economic Development class registrations; hazmat certificate registrations; purchases of call and ride, bus, and Metrorail passes; sale of zoning ordinances by the County Attorney's Office; Office of Procurement bids and subscriptions; and ball field reservations. (Note that because of the introduction of new payment processing software in FY05. ball field reservations will be excluded from the total beginning in FY06.)

EXPLANATION:

The Application Development and Integration Program is responsible for implementation of new web-based information technology systems in the County. The program assesses business and technical requirements, translates requirements into technology systems solutions, and defines standard process and software development methodologies to deliver the appropriate IT systems and solutions. This program also manages the County's website (http://www.montgomerycountymd.gov) and provides training for users on new and existing applications and web management tools. The website is part of the County's electronic government initiative, which seeks to provide cost-effective services at greater convenience to County residents and employees through the use of modern web technologies.

PROGRAM PARTNERS IN SUPPORT OF OUTCOMES: Office of Public Information, user departments.

MAJOR RELATED PLANS AND GUIDELINES: Horizon 21 Information Technology Strategic Plan: 1998, 1999; Department of Technology Services Strategic Plan: 2003; Montgomery County Technology Architecture: 2004, 2005

^aExcept for Inputs, most data are unavailable prior to FY05.

PROGRAM:

Desktop Computer Modernization (DCM)

PROGRAM ELEMENT:

PROGRAM MISSION:

To provide up-to-date desktop PCs and software and improved levels of service (acquisition, management, Help Desk, and maintenance) to all departments at lower cost

COMMUNITY OUTCOMES SUPPORTED:

- Enable County employees to be the best at serving their customers
- · Deliver information and services to citizens at work, at home, and in the community
- · Increase the productivity of government

| PROGRAM MEASURES | FY03 ACTUAL | FY04 ACTUAL | FY05 ACTUAL | FY06 BUDGET | FY07 CE REC |
|--|----------------|----------------|----------------|-----------------|-----------------|
| Outcomes/Results: | | | | | <u> </u> |
| Average cost saving per PC purchased via DCM (\$) | 316 | 280 | 278 | 300 | 300 |
| Average age of PCs (years) | 2.3 | 3.0 | 2.7 | 2.4 | 2.2 |
| Service Quality: | | | | | |
| Average Help Desk wait time (seconds) | 6.3 | 2.3 | 8.2 | ^b 90 | ⁶ 90 |
| Percentage of Help Desk calls resolved during initial call | 96 | 95 | 95 | 80 | 80 |
| Average time to repair a PC (hours) | 3.8 | 2.1 | 3.0 | °8.0 | °8.0 |
| Efficiency: | | | | | |
| Cost per PC covered under services (\$) ^d | 410 | 410 | 410 | 368 | 431 |
| Cost per service call (including installations) (\$) | 147 | 134 | 142 | 135 | 130 |
| Workload/Outputs: | | | | | |
| PCs replaced | 1,804 | 115 | 2,097 | 2,000 | 2,050 |
| PCs covered under services | 6,853 | 6,947 | 7,954 | 7,900 | 8,000 |
| Service calls performed (including installations) ^a | 20,329 | 22,868 | 21,145 | 24,000 | 24,500 |
| Inputs: | | | | | |
| Expenditures - purchases (\$000) | 2,345 | 531 | 3,080 | 2,962 | 3,127 |
| Expenditures - services (\$000) | 2,988 | 3,066 | 3,122 | 3,234 | 3,344 |
| Expenditures - management (\$000) | <u>717</u> | <u>634</u> | <u>667</u> | <u>661</u> | <u>730</u> |
| TOTAL expenditures (\$000) ^e | 6,050 | 4,231 | 6,869 | 6,857 | 7,201 |
| Workyears ^e | 7.0 | 7.0 | 6.0 | 6.0 | 6.0 |

Notes:

EXPLANATION:

The Desktop Computer Modernization (DCM) program was developed by Montgomery County's Department of Technology Services based on a best practices approach to maintaining a modern, cost-effective desktop computing environment in the County. The program, which began in FY99, is designed to lower the total cost of ownership through standardization, asset management, Help Desk support, and maintenance services. The DCM program includes centralized management and maintenance of the County's installed base of nearly 8,000 desktop and laptop computers (as of FY05) and annual replacement for one-fourth of those PCs. The program is designed to improve the efficiency and effectiveness of County employees by ensuring that they have the appropriate, state-of-the-art computing resources they need to do their job. County DCM staff are responsible for planning, coordination, and quality assurance, and for coordinating and monitoring PC installation, moves, adds, changes, the Help Desk, and maintenance services provided by a contractor.

PROGRAM PARTNERS IN SUPPORT OF OUTCOMES: Office of Human Resources (training), user departments (planning, implementation).

MAJOR RELATED PLANS AND GUIDELINES: Horizon 21 Information Technology Strategic Plan: 1998, 1999; Telecommunications Audit Action Plan, 1998; DCM Program Best Practices and Financial Analysis, 1997.

^aThe number of service calls performed has increased over the years as more and more departments utilize the PC Help Desk.

^b90 seconds is the contractual level of service; the actual results have been well below the contractual requirement.

^cEight hours is the contractual level of service; the actual results have been well below the contractual requirement.

^dThe cost per PC covered under services is a fixed contracted amount per PC, with some variability depending on the type and quality of service.

^eIn FY03 and FY04, DCM program expenditures and staff consisted of two contractors and five in-house positions from the Enterprise Services Program. In FY05, one contractor was converted to a County merit position. Thus, the expenditures and workyears for FY05 - FY07 include one contractor and six in-house positions from the Enterprise Services Program.

PROGRAM:

Geographic Information Systems

PROGRAM ELEMENT:

Custom Maps and Data Reports Generation

PROGRAM MISSION:

To provide timely and accurate maps and data reports that enable informed decision-making on geographically-based issues by customer departments

COMMUNITY OUTCOMES SUPPORTED:

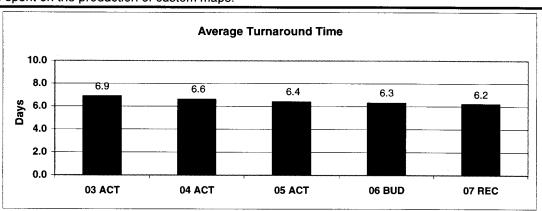
- Enable County employees to be the best at serving their customers
- Deliver information and services to citizens at work, at home, and in the community
- Increase the productivity of government

| ACTUAL | FY04 ACTUAL | FY05 ACTUAL | FY06 BUDGET | FY07 CE REC |
|--------|--|---|--|--|
| | | | | |
| 250 | 248 | 250 | 250 | 250 |
| | | | | |
| 35 | 34 | 35 | 35 | 35 |
| 15 | 14 | 15 | 15 | 15 |
| NA | NA | NA | NA | 10 |
| | | | | |
| 6.9 | 6.6 | 6.4 | 6.3 | 6.2 |
| | | | | |
| | | | | |
| 85 | 106 | 103 | 104 | 105 |
| 2.19 | 1.99 | 1.89 | 1.72 | 1.74 |
| | | | | |
| 1,604 | 1,405 | 1,550 | 1,680 | 1,700 |
| 8 | 9 | 10 | 10 | 11 |
| | | | | |
| 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| 137 | 149 | 159 | 174 | 178 |
| | 250 35 15 NA 6.9 85 2.19 1,604 8 | 250 248 35 34 15 14 NA NA 6.9 6.6 85 106 2.19 1.99 1,604 1,405 8 9 2.3 2.3 | 250 248 250 35 34 35 15 14 15 NA NA NA 6.9 6.6 6.4 85 106 103 2.19 1.99 1.89 1,604 1,405 1,550 8 9 10 2.3 2.3 2.3 2.3 | 250 248 250 250 35 34 35 35 15 14 15 15 NA NA NA NA NA 6.9 6.6 6.4 6.3 85 106 103 104 2.19 1.99 1.89 1.72 1,604 1,405 1,550 1,680 8 9 10 10 2.3 2.3 2.3 2.3 2.3 |

Notes:

EXPLANATION:

The County government has made increasing use of customized Geographic Information System (GIS) maps. While the average cost per map climbed by 21% between FY03 and FY05, the turnaround time decreased by half a day.



PROGRAM PARTNERS IN SUPPORT OF OUTCOMES: Maryland-National Capital Park and Planning Commission, Washington Suburban Sanitary Commission, Montgomery County Public Schools, Department of Public Works and Transportation, Department of Permitting Services, user departments and agencies, cities of Gaithersburg and Rockville, Metropolitan Washington Council of Governments.

MAJOR RELATED PLANS AND GUIDELINES: Horizon 21 Information Technology Strategic Plan, July 1998, 1999; Montgomery County GIS Plan, June 1996.

^aThe Department plans to support the production of maps for Department of Economic Development customers beginning in FY07.

^bWorkyears relate to staff time spent on the production of custom maps.

PROGRAM:

Radio Communications

PROGRAM ELEMENT:

Radio Maintenance

PROGRAM MISSION:

To provide timely and reliable communications (radio) maintenance to the Police Department, Fire and Rescue Service, Department of Homeland Security, Department of Public Works and Transportation, other departments and agencies as designated, and to the County Executive and County Council

COMMUNITY OUTCOMES SUPPORTED:

- Enable County employees to be the best at serving their customers
- · Deliver information and services to citizens at work, at home, and in the community
- · Increase the productivity of government

| PROGRAM MEASURES | FY03 ACTUAL | FY04 ACTUAL | FY05 ACTUAL | FY06 BUDGET | FY07 CE REC |
|--|--------------------|--------------------|--------------------|----------------|----------------|
| Outcomes/Results: | | | | | |
| Percentage of services rendered without | 99.9 | 96.0 | 97.0 | 99.9 | 99.0 |
| requiring a revisit | | | | | |
| Percentage availability of radio systems | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| infrastructure | | | | | |
| Service Quality: | | | | | |
| Percentage of customers satisfied with | 99.7 | 99.7 | 99.7 | 99.9 | 99.0 |
| Communications Maintenance Services | | | | | |
| Average repair wait time for in-shop while- | 47 | 50 | 43 | 45 | 45 |
| you-wait service (minutes) | | | | | |
| Average turn-around time for in-shop bench | 41 | 40 | 32 | 40 | 40 |
| service (minutes) | | | | | |
| Average turn-around time for depot repair | ^a 27.2 | 14.0 | 14.0 | 14.0 | 14.0 |
| service (days) | | | | | |
| Efficiency: | | | | | |
| Service requests fullfilled per workyear | 248 | 202 | 172 | 164 | 174 |
| Workload/Outputs: | | | | *** | |
| Number of mobile radios installed in County | 1,650 | 1,650 | , 1,669 | 1,703 | 1,800 |
| vehicles | | | | | , |
| Number of service requests fulfilled | ^b 2,277 | 1,660 | ^e 4,087 | 1,512 | 1,600 |
| Number of portable radios in active service | 2,061 | 1,952 | 1,960 | 2,054 | 2,050 |
| Inputs: | | | | | |
| Expenditures - workyears (\$000) | 702 | 623 | 594 | 793 | 918 |
| Expenditures - operations and capital outlay (\$000) | <u>668</u> | ^c 1,416 | <u>1,946</u> | <u>2,077</u> | <u>2,229</u> |
| TOTAL expenditures (\$000) | ^b 1,370 | 2,039 | 2,540 | 2,870 | 3,147 |
| Workyears ^c | 9.2 | ^d 8.2 | 9.2 | 9.2 | 9.2 |

Notes

^aThe FY03 actual turn-around time for depot repair service was longer than expected because of contractor transition (the existing contract expired, but the new contract was not yet in place). During the transition, in-house staff and various vendors were used for repair services on an *ad hoc* basis.

EXPLANATION:

The Public Safety 2000 program had a major impact on program performance between FY01 and FY03. In FY01 and FY02, work efforts were increasingly focused on keeping existing radio equipment from dying of advanced age and from decreased support and replacement spending by user departments. Some radios were abandoned without replacement. In FY03, warranty considerations, equipment changeover, and training issues had major impacts on program performance. Since the 800 Mhz radio system was implemented, there has been a continued need to maintain the eleven 800 Mhz sites located throughout the County.

PROGRAM PARTNERS IN SUPPORT OF OUTCOMES: User departments (planning, implementation).

MAJOR RELATED PLANS AND GUIDELINES: Telecommunications Audit Action Plan, 1998; Communications Maintenance Section Policies and Procedures.

^bFY03 actual expenditures were down due to the transition between the old and new radio systems - it was not cost effective to repair an old radio system which was soon to become surplus equipment.

^cBeginning with the FY04 budget, radio maintenance costs for the Public Safety Communications System are included.

The decrease in the FY04 actual workyears was due to the program's inability to fill two vacancies because of a position freeze that year.

^eThe FY04 increase in the number of service requests fulfilled was due to the re-programming project for all Police mobile and portable radios.

PROGRAM:

Telecommunications Services

PROGRAM ELEMENT:

Desktop Telephone Services

PROGRAM MISSION:

To provide timely telephone and voice mail moves, adds, changes, and repairs with minimum interruption in service

COMMUNITY OUTCOMES SUPPORTED:

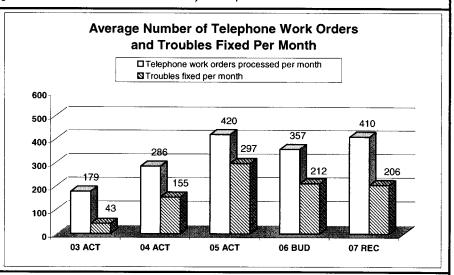
- Enable County employees to be the best at serving their customers
- Deliver information and services to citizens at work, at home, and in the community
- Increase the productivity of government

| PROGRAM MEASURES | FY03 ACTUAL | FY04 ACTUAL | FY05 ACTUAL | FY06 BUDGET | FY07 CE REC |
|---|----------------|----------------|---------------------------------------|----------------|----------------|
| Outcomes/Results: | | | ΛΟΙΟΛΕ | JOBGET | 02.1120 |
| Coming Quality | | | | | ,,,, |
| Service Quality: | | | | | |
| Average percentage of troubles ^a outstanding per month | 1 | 1 | 1 | 1 | 1 |
| Average days to complete a move/add/change request | 3 | 3 | 3 | 3 | 3 |
| Average time to fix a trouble (hours) | 8 | 8 | 8 | 8 | 8 |
| Efficiency: | | | | | |
| Telephone lines maintained per workyear | 1,948 | 2,146 | 2,328 | 2,409 | 2,494 |
| Voice mailboxes maintained per workyear | 1,099 | 2,106 | 2,212 | 2,271 | 2,335 |
| Troubles and work orders processed per workyear | 333 | 745 | c1,212 | 962 | 1,041 |
| Workload/Outputs: | - | | , | | , |
| Telephone lines maintained | 15,582 | 15,234 | 16,531 | 17,104 | 17,704 |
| Voice mailboxes maintained | 8,791 | 14,953 | 15,702 | 16,123 | 16,575 |
| Average telephone work orders processed per month | 179 | 286 | 420 | 357 | 410 |
| Average troubles fixed per month | 43 | 155 | 297 | 212 | 206 |
| Inputs: | | | | | |
| Workyears | 8.0 | 7.1 | 7.1 | 7.1 | 7.1 |
| Expenditures (\$000) ^b | 4,635 | 724 | 1,057 | 1,053 | 882 |
| NI-1 | | | · · · · · · · · · · · · · · · · · · · | | |

Notes:

EXPLANATION:

The graph shows the average number of telephone work orders processed and troubles repaired per month. Telephone work orders include moving, adding, or changing telephones or telephone numbers, as well as program changes in PBX software and voice mail systems. Troubles can include problems with the telephone system, jacks, building wiring, or telephone sets. The number of telephone work orders has increased due to the implementation of a new PBX on June 30, 1999, and as a result of more thorough documentation of work (for instance, every request for a change in any telephone service is now documented). Triaging of reported problems by Help Desk and customer service staff has helped to hold down the number of reported troubles needing repairs.



PROGRAM PARTNERS IN SUPPORT OF OUTCOMES: Department of Technology Services IT Help Desk and Network Management; Office of Procurement (contract management support); user departments.

MAJOR RELATED PLANS AND GUIDELINES: Horizon 21 Information Technology Strategic Plan, 1999; Telecommunications Audit Action Plan, 1998.

^aSee the "Explanation" below for a definition of what constitutes a "trouble."

^bThe FY03 expenditures include a Council Supplemental of \$3,934,115 for an Automatic Call Distributor for the E911 primary and secondary County communication centers. This "turnkey" system included planning, assessment, installation, design, implementation, reporting, testing, acceptance, and maintenance. The FY04 expenditures do not include the FY03 supplemental appropriation. The FY05 expenditures includes a one-time expenditure of \$284,550 to migrate the Executone telephone key systems to the County's PBX platform. The FY06 budget includes a one-time expenditure of \$186,700 to implement IVR Platform/Infrastructure Expansion.

^cProcessed work orders increased due to the migration of Executone users to the County's PBX platform.